

Sepehr Dehdashtian

PH.D. STUDENT IN COMPUTER SCIENCE

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Education

Ph.D. in Computer Science and Engineering

MICHIGAN STATE UNIVERSITY

Jun. 2022 - present

Michigan, USA

M.Sc. in Electrical Engineering

SHARIF UNIVERSITY OF TECHNOLOGY

Sep. 2018 - Feb. 2021

Tehran, Iran

- GPA: 3.87
- Thesis: Blind Recognition of Channel Codes Using Deep Neural Networks

B.Sc. in Electrical Engineering

SHAHID CHAMRAN UNIVERSITY OF AHVAZ

Sep. 2014 - Sep. 2018

Ahvaz, Iran

- GPA: 3.93 (Ranked 1st)

Research Interests

- Fairness in Machine Learning
- Fairness in Generative Models
- Vision-Language Models
- Invariant Representation Learning

Publications

- FACCT'24** **The Dark Side of Dataset Scaling: Evaluating Racial Classification in Multimodal Models** [Under Review]
A. Birhane*, S. Dehdashtian*, V. Prabhu, and V. Boddeti
- CVPR'24** **Utility-Fairness Trade-Offs and How to Find Them** 2024
S. Dehdashtian, B. Sadeghi, and V. Boddeti
- ICLR'24** **FairerCLIP: Debiasing Zero-Shot Predictions of CLIP in RKHSs** 2024
S. Dehdashtian*, L. Wang*, and V. Boddeti
- TMLR** **On characterizing the trade-off in invariant representation learning** 2022
B. Sadeghi, S. Dehdashtian, and V. Boddeti
- IEEE WCL** **Deep-Learning Based Blind Recognition of Channel Code Parameters over Candidate Sets under AWGN and Multi-Path Fading Conditions** 2021
S. Dehdashtian, M. Hashemi, and S. Salehkaleybar

Honors & Awards

- 2023 **Department of Computer Science and Engineering Fellowship**, Michigan State University USA
- 2022 **Shortlisted for TMLR Outstanding Paper Award**, Transactions on Machine Learning Research USA
- 2022 **Received TMLR Featured Certification**, Transactions on Machine Learning Research USA
- 2021 **Ranked 2nd GPA the graduating class of 2021**, M.Sc. program at Sharif University of Technology Iran
- 2018 **Ranked 5th among more than 30,000 participants**, Iranian University Entrance Exam for Master's degree in Electrical Engineering. Iran
- 2018 **Ranked 1st GPA the graduating class of 2018**, B.Sc. program at Shahid Chamran University of Ahvaz Iran
- 2014-21 **Received the national graduate and undergraduate full scholarships**, M.Sc. and B.Sc. programs Iran

Academic Projects

Mitigating Political Bias in Pre-Trained Large Language Models

NATURAL LANGUAGE PROCESSING

Michigan State University

2023

Visually Explaining Fair Representation Learning—A Model Perspective

MACHINE LEARNING

Michigan State University

2023

Video Synopsis using OpenCV in Python

COMPUTER VISION

Sharif U.

2019

Skills

AI/ML	Python (PyTorch, PyTorch-Lightning, TensorFlow, Keras, OpenCV, Scikit-Learn)
Programming Language	Python, C, C++, SQL, CUDA, Verilog, VHDL
Software	MATLAB, \LaTeX , ISE Xilinx, Modelsim, CodeVision, Keil, Proteus
Hardware	FPGA, Microcontrollers, GPU, Raspberry Pi
Languages	English, Farsi
Others	Git, Linux, Windows

Experience

Human Analysis Lab. Research

RESEARCH ASSISTANT

Michigan State University

Jun. 2022 - present

Learning and Intelligent Systems Lab.

RESEARCH ASSISTANT

Sharif U.

Nov. 2018 - Feb. 2021

Digital Systems II: Verilog hardware description language

TEACHING ASSISTANT

Shahid Chamran U.

2017 - 2018

Communication Systems

TEACHING ASSISTANT

Shahid Chamran U.

2017 - 2018

Designed a Data Logger webserver

INTERN

Radaq Company

Jul. 2017 - Sep. 2017

Scientific-Students Associations of Clean Energy

DEPUTY SECRETARY

Shahid Chamran U.

2016

Scientific-Students Associations of Electrical and Electronic Eng. Department

MEMBER

Shahid Chamran U.

2015